Machine Learning for Personalized Medicine

3rd Annual Summer School
September 21 – 25, 2015
Museum of Science and Industry, Manchester, UK

European Commission
Marie Curie Actions – Initial Training Network
"Machine Learning for Personalized Medicine" MLPM2012

PEOPLE

September

Time	Mo, 21st	Tue, 22nd	Wed, 23rd	Thu, 24th	Fr, 25th	Time
09:00 – 09:30	David Balding "Heritability-based models for prediction of complex traits"	Chris Holmes "Computational Decision Theory (Model Misspecification)"	Aki Vehtari "Gaussian Processes for Survival Analysis"	Karsten Borgwardt "Statistical Significance in Biomarker Discovery"	Marcelo Rivolta "The road from bench to bedside: ethical considerations to animal use in preclinical research"	09:00 – 09:30
10:00 – 10:30	Peter Diggle "Statistical Methods for real-time monitoring of health outcomes"	Magnus Rattray "Probabilistic modelling of omic time course data"	Richard Mead "Mouse models of motor neuron disease (MND); scientific and ethical aspects."	Mike Croucher "'Is your research software correct'?"	Jonathan Price "The law and ethics of data"	10:00 – 10:30
11:00	Coffee Break	Coffee Break	Coffee Break, Poster Session (public) & Committee Meetings (for ITN members only)	Coffee Break, Poster Session (public) & Committee Meetings (for ITN members only)	Coffee Break	11:00
11:30 – 12:00	Oliver Stegle Tutorial "Modeling molecular heterogeneity between individuals and single cells"	Catalina Vallejos Tutorial "Statistical challenges in the analysis of single-cell transcriptomics data"			Oliver Hofmann "The Needle in the haystack - or how we Identify true genomic variation"	11:30 – 12:00
12:30 – 13:00	Lunch	Lunch	Lunch	Lunch	Lunch	12:30 – 13:00
13:30					Winston Hide "Translation and personalised medicine: Genome medicine meets reality"	13:30
14:00 – 14:30	Lab Session "Taking confounding variation into account in latent variable modeling in single cell data"	Lab Session "Statistical challenges in the analysis of single-cell transcriptomics data"	Iain Buchan "Discovering Subgroups of Disease with Model-based Machine Learning"	Marta Milo "Impact of Machine Learning on Personalised Health: past, present and future"	Guided tour to the world's first stored program computer "Manchester Baby"	14:00 – 14:30
15:00			Coffee Break	Coffee Break		15:00
15:30	Coffee Break	Coffee Break			Coffee Break	15:30
16:00 – 16:30	Neil Lawrence "Peer Review and the NIPS Experiment"	Gunnar Rätsch "Deep Sequencing and Functional Genomics"	Presentation of ITN projects, discussion of existing results	Presentation of ITN projects, discussion of existing results	Guided tour to the world's first stored program computer "Manchester Baby"	16:00 – 16:30
17:00						17:00

Wed, 23rd 13:00: Supervisory Board Meeting (Board members only)